



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact [support@jstor.org](mailto:support@jstor.org).

# INDEX.

## ORIGINAL ARTICLES.

- CREEPING AND WALKING. *August W. Trettien*. 1-57.
- DISCRIMINATION OF CLANGS FOR DIFFERENT INTERVALS OF TIME.  
Part II. *F. Angell*. 58-79.
- THE APPERCEPTION OF THE SPOKEN SENTENCE: A Study in the Psychology of Language. *William Chandler Bagley*. 80-130.
- MINOR STUDIES FROM THE PSYCHOLOGICAL LABORATORY OF WELLESLEY COLLEGE. Communicated by *Mary Whiton Calkins*.
- IV. STUDIES OF THE DREAM CONSCIOUSNESS. *Grace A. Andrews*. 131-134.
- THE RELATION OF STIMULUS TO SENSATION. A Reply to Mr. Max Meyer's Criticism on Prof. C. Lloyd Morgan's Paper. *F. R. Barrell*. 135-139.
- THE NECESSITY FOR A NEW STANDPOINT IN SLEEP THEORIES.  
*Henry Hubbard Foster*. 145-177.
- A "COLOR ILLUSION." *M. F. McClure*. 178-184.
- THE PERCEPTION OF VISUAL FORM. *L. Hempstead*. 185-192.
- ON THE CORRELATION OF MENTAL AND MOTOR ABILITY IN SCHOOL CHILDREN. *William Chandler Bagley*. 193-205.
- EXPERIMENTAL STUDY OF THE MENTAL PROCESSES OF THE RAT. II.  
*Willard S. Small*. 206-239.
- A COMPARISON OF JUDGMENTS FOR WEIGHTS LIFTED WITH THE HAND AND FOOT. *A. J. Kinnaman*. 240-263.
- A METHOD OF MAPPING RETINAL CIRCULATION BY PROJECTION.  
*R. M. Ogden*. 281-291.
- ON THE PSYCHOLOGY AND PHYSIOLOGY OF READING. II. *Edmund B. Huey*. 292-312.
- STUDIES FROM THE PSYCHOLOGICAL LABORATORY OF THE UNIVERSITY OF MICHIGAN. Contributed by *W. B. Pillsbury*.
- I. THE FLUCTUATIONS OF THE ATTENTION IN SOME OF THEIR PSYCHOLOGICAL RELATIONS. *J. W. Slaughter*. 313-334.
- II. THE EFFECT OF CERTAIN STIMULI UPON THE ATTENTION WAVE. *R. W. Taylor*. 335-345.
- III. DOES THE SENSATION OF MOVEMENT ORIGINATE IN THE JOINT? *W. B. Pillsbury*. 346-353.
- THE EDUCABILITY OF THE PERCH. *Norman Triplett*. 354-360.
- STUDIES OF RHYTHM AND METER. *Norman Triplett* and *Edmund C. Sanford*. 361-387.
- AN ANALYTICAL STUDY OF THE MEMORY IMAGE AND THE PROCESS OF JUDGMENT IN THE DISCRIMINATION OF CLANGS AND TONES.  
*Guy Montrose Whipple*. 409-457.
- INFLUENCE OF THE IDEA OF ÆSTHETIC PROPORTION ON THE ETHICS OF SHAFTESBURY. *M. F. Libby*. 458-492.
- A GENETIC STUDY OF RHYTHM. *C. R. Squire*. 493-589.
- IMPROVEMENTS IN THE VERNIER CHRONOSCOPE.  
*E. C. Sanford*. 590-594.
- FLUCTUATION OF THE ATTENTION TO MUSICAL TONES.  
*E. B. Titchener*. 595.

# SUBJECT INDEX.

- Æsthetics**, 398, 600; **Æsthetic proportion and the ethics of Shaftesbury**, 458  
**Anæsthetics**, 605, 612  
**Animals**, mind in. See **Comparative psychology**,  
*L'année psychologique*, 1898, 1899, 1900, 268  
**Anthropological**, 143, 389, 391, 600, 605; **Blood in belief and superstition**, 143; **Magic and religion**, 616; **Origin of language**, 611; **Religions of peoples**, 616; **Vision of savages**, 610. See also **Religion**.  
**Apparatus**, flicker photometer, 140; **Vernier chronoscope**, 590.  
**Apperception**, 80  
**Attention**, 58, 595; **effect of certain stimuli on**, 335; **fluctuations**, 313, 595  
**Biology**, 389, 608; **Huxley**, 608  
**Book Notes**, 604  
**Books received**, 144, 279, 403  
**Child psychology**, 1, 142, 143, 271, 397, 492  
**Color blindness**, artificial and temporary, 393; **Color illusion**, 178; **Color-vision**, 140, 142  
**Colored hearing**, 393  
**Comparative psychology**, 264; **Animal behavior**, 391; **Apes and monkeys**, 279; **Bee-people**, 397; **Life of a Bee**, 607; **Crustacea**, 608; **Dogs and Savages** 391; **Orientation of animals**, 391; **Protozoa**, 141, 608, 611; **Psyche in the phenomena of life**, 610; **Rats**, 206; **Skunks**, 608; **Superiority of animals to man**, 391.  
**Communications**, 144, 402  
**Crime**, 142, 271, 399; **Criminal crowds**, 391; **Prison laboratories**, 271.  
**Discrimination of clangs**, 58; **and of tones**, 409.  
**Diseases of heart**, **blood vessels**, **lymphatics**, **blood and ductless glands**, 397; **of orientation and equilibration**, 612.  
**Dream Consciousness**, 131  
**Education**, 389; **and the philosophical ideal**, 277. See also **Pedagogical**.  
**Emotion**, 391; **Timidity**, 604.  
**Essays**, 604; **Jastrow**, 399; **Knight**, 614; **Pfleiderer**, 143; **Wallace** 390.  
**Ethics**, 142, 270, 395, 396, 615; **Æsthetic proportion and the Ethics of Shaftesbury**, 458; **Buddhistic Ethics of the 4th Century B. C.**, 143; **Ethical aspects of Lotze's metaphysics**, 615; **Ethical life**, 614; **Ethical marriage**, 614; **Ethics of Judaism**, 397; **Evolution and Morals**, 614; **France from the moral point of view**, 396; **Morals and demography**, 615; **Varia (Knight)**, 614.  
**Experimental psychology**, 388, 596; **and school instruction**, 602; **Judgments**, 611.  
**Eye movements**, **velocity of**, 400  
**Evolution**, 390; **and Morals**, 614; **and Theology**, 143; **of law and the social conscience**, 269; **of man**, 279; **Dragons of the air**, 608.  
**Heredity and human progress**, 275  
**Historical**. **Æsthetics of Lotze**, 398; **Berkeley**, 613; **Fechner**, 604; **Fichte's doctrine of the freedom of the will**, 615; **Geometrical philosophers of Greece**, 142;

- Historical.  
   Greek thinkers, 393; Hume, 269; Malebranche, 613; Metaphysical problems, 604; Nietzsche, 276, 392, 615; Nietzsche's *Æsthetics*, 278; Philosophy of nature with the ancients, 390; Plato, 142; Psychology from 1889 to 1900, 272; Recent advances in psychology, 400; Shaftesbury, 275; Socrates, 388; Taine, 273.  
 History of Philosophy, 397; 604; (*Windelband*) 399, 614; (for years 1891-1900) 398.  
 Hypnotism, 269, 397, 399, 605, 611. See also Suggestibility.  
  
**Idiot and imbecile**, 612  
 Illusions of the senses, 269  
 Imagination, creative, 278; Imagination and mathematics, 278; and pure reason, 613.  
 Imitation, philosophy of, 610  
 Immortality, 278; evolution of, 395.  
 Individual, 270, 278; Individual psychology, 270.  
 Insanity, in relation to normal psychology, 143. See also Psychiatry.  
 Invention, psychology of, 399  
  
**Judgment**, 611; of clangs and tones, 409; of lifted weights, 240  
 Joint Sensations, 346  
  
**Language**, 80  
 Law, evolution of, 269  
 Love and marriage, 276  
  
**Magic**, 399; old and new, 271; and religion, 616.  
 Medicine, text-book of, 611; psychological tendency in, 613; *Journal of Medical Research*, 613.  
 Memory, 58, 610; Memory image, 409.  
 Mental and motor ability in children, 193; Mental suggestion, 269; Mental wandering, 605.  
 Mimetism of man, 398  
 Mimicry in nature, 276  
  
*Mind* Association, 401  
 Mind and body, 269, 611  
 Mind in Animals. See Comparative psychology.  
 Miscellaneous. "From India to the Planet Mars," 265; "Fruitfulness" (*Zola*), 276; History of the 19th century, 393; Memorial of George Brown Goode, 388; Tenses in Hebrew, 389; *Uchronia*, 392.  
 Motor impulses, diffusion of, 274  
 Muscular work, 274  
 Music, 595; psychological theory of, 609; Musical tones, 595.  
  
**Narkosis**, 605, 612  
 Nervous and Mental Diseases, 611  
 Nervous system, atlas of, 611; in man and the vertebrates, 611.  
 Neurasthenia, 605  
  
**Occultism**, 272, 399, 401  
  
**Pedagogical**, 143, 602; Children's plays, 397; Pedagogy of psychology, 140; Reading, 604.  
 Personality, 392  
 Philosophical, 392, 393; Contemporary Russian philosophy, 613; Dictionary of Philosophy and Psychology, 609; Dilemmas of metaphysics, 273; Energism, 608; Ether and will, or Haeckel and Schopenhauer, 608; Freedom and "Free-Will," 398; Kant vs. Haeckel, 607; Limits of Evolution, 607; Lotze's Metaphysics, 615; Philosophical Essays (*Durand*), 278; Philosophy and Islam, 613; of history, 397; 607; of pure experience, 142; Philosophy of the History of Philosophy, 607; Riddle of the Universe at the close of the 19th century, 390; Self consciousness, 613; Theory of knowledge, 143; Transcendental and psychological methods, 277; *Varia* (Knight), 614.

- Physiology, 393; history of in the 16-18 centuries, 615; text-book of (Schäfer), 273; Commonwealth of cells, 608; Reports from Turin laboratory, 610; Respiration in tunnels and action of carbonic acid, 279.
- Psychiatry, 388, 394; Sanity of mind, 399; Periodic insanities, 612.
- Psychical Research, 265, 278, 611
- Psychological Essays (Van Biervliet), 604
- Psychological literature, 140, 264, 388, 596
- Psychological Studies (Gale), 142
- Psychology, treatises on. Gordy, 609; Maher, 265; Münsterberg, 273; Putnam, 389; de Raaf, 609; Stout's Manual, 609; Thorndike, 392; Titchener's laboratory manual, 388, 596; Ziehen, 269.
- Psychology and the Medical School, 613; of individual differences, 270; of the crowd, 605; methods in, 272; Practice course in (Höfler and Witasik), 140; Titchener, 596.
- Psychophysics, 610; Stimulus and sensation, 135.
- Reading, physiology and psychology of,** 604
- Religion, Ancient Germanic, 389; Poetry and, 277; Century's progress in, 619; Cultus and history of, 621; Goethe on, 395; of peoples, 616; philosophy of, 616; truth in, 620; Biblical Paradise, 621; Contents of the religious consciousness, 620; Crisis of belief, 619; Early conversion, 620; Enthusiasm and penance of Greek monks, 619; Essence of Christianity, 621; Faith and knowledge, etc., 619; Future life according to Mazdeism, 619; God's education of man, 394; Judaism and Christianity, 621; Missionary work in So. China, 621; Monasticism, its deals and history, 621; Monuments of the early church, 619; Prayer in the Old Testament, 621; Public worship, 620; Revelation in gnosticism, 621; School hymnal, 620; Sunday School, 621. See also Theology.
- Rhythm, 398, 492; and meter, 361
- Science and mediæval thought 614
- Self, the mystic, 398
- Sensation and Movement, 269
- Sense perception and sense illusion, 611
- Sex, 392, 614
- Sleep theories, 145
- Social psychology. Christ and the social question, 617; Crazes, 400; Documents of English constitutional history, 616; Inductive sociology, 615; Political economy, 399; Primer of Political Economy, 615; Psychology of crowds, 400; of the city of Bruges, 616; of the French army, 616; Social question, 615.
- Spiritism, 265, 401
- Suggestion, 269 397
- Suicide, 142
- Tests of school children, 271
- Theological, 143, 279, 389, 394, 395, 606, 617, 618, 619, 620, 621.
- Theology and metaphysics, 619; of Richard Rothe, 606; reconstruction in, 396. See also Religion.
- Tones, 595; tones and clangs, 409.
- Vision, 140, 610; Retinal circulation, 281; Visual form, 185. See also Color.
- Will, 142, 398, 615
- Yale Studies, 277, 610

## AUTHORS' INDEX.

(The names of those who have contributed original matter are printed in SMALL CAPITALS.)

<b>Abbott, E. A.</b>	394	<b>Church, A.</b>	612
— Lyman,	617	Clifford, W. K.	269
<b>Adams, G. B.</b>	616	Cline, T. S.	400
<b>Adamson, T.</b>	617	Colegrove, F. W.	610
<b>Adeney, W. F.</b>	619	Colozza, G. A.	397
<b>Adickes, Erich,</b>	607	Conn, H. W.	390
<b>Allbutt, T. C.</b>	614	Croiset, A.	270
<b>ALLEN, EZRA,</b>	271	Cutter, —.	274
<b>ANDREWS, GRACE A.</b>	131	von Czobel, S.	616
<b>ANGELL, FRANK,</b>	58		
— JAMES R.	596	<b>Dahlmann, F. W.</b>	613
<b>Arréat, Lucien,</b>	398	<b>Darel, Th.</b>	388
		<b>Darlu, A.</b>	276
<b>Bacon, Benj. W.</b>	279	<b>Dearborn, G. V. N.</b>	613
<b>BAGLEY, WM. C.</b>	80, 193	<b>Delbos, V.</b>	270
<b>Bain, A.</b>	269	<b>Dodge, Raymond,</b>	400
<b>Baldensperger, W.</b>	621	<b>Dolson, Grace N.</b>	392
<b>Baldwin, J. M.</b>	609	<b>Drescher, Rich.</b>	606
<b>BARRELL, F. R.</b>	135	<b>Dresser, H. W.</b>	277
<b>Bazaillas, Albert,</b>	619	<b>Dubois, —.</b>	611
<b>Barzellotti, G.</b>	273	<b>Dumont, A.</b>	615
<b>Batten, L. W.</b>	617	<b>Duraud, J. P.</b>	278, 615
<b>Beaunis, H.</b>	268	<b>Ernst, H. C.</b>	613
<b>Belot, G.</b>	270	<b>Eucken, Rudolf,</b>	620
<b>Berkenbusch, H.</b>	616	<b>Evellin, F.</b>	613
<b>Bernès, M.</b>	270		
<b>Bhagaván, Dás,</b>	391	<b>Féré, Ch.</b>	269
<b>van Biervliet, J. J.</b>	604	<b>Fierens-Gevaert, H.</b>	616
<b>Binet, A.</b>	268, 397	<b>Fischer, Emil,</b>	619
<b>Binswanger, O.</b>	613	<b>Flade, Walther,</b>	606
<b>Bjoernstroem, F.</b>	269	<b>De Fleury, M.</b>	605
<b>de Boer, T. J.</b>	613	<b>Flournoy, Th.</b>	265, 401
<b>Bosse, K. K.</b>	142	<b>Foncault, M.</b>	610
<b>Bourgaud, Emile,</b>	617	<b>FOSTER, HENRY H.</b>	145
<b>Boutroux, Pierre,</b>	278	— M.	615
<b>Brinton, D. G.</b>	605	<b>Fouillée, Alfred,</b>	396
<b>Brooks, W. K.</b>	608	<b>Fournière, E.</b>	270
<b>Brown, J. F.</b>	615	<b>Franke, H.</b>	606, 618
<b>Bugge, C. A.</b>	619	<b>Fraser, Alex. C.</b>	613
<b>Buisson, F.</b>	270	<b>Fugmann, Richard,</b>	276
<b>von Bunge, G.</b>	393	<b>Fullerton, G. S.</b>	398
<b>Burch, Geo. J.</b>	393		
		<b>Gale, Harlow,</b>	142
<b>Caldecott, Alfred,</b>	621	<b>Garner, R. L.</b>	279
<b>Calkins, G. N.</b>	608	<b>Gibson, J. C.</b>	621
— MARY W.	131	<b>Giddings, F. H.</b>	615
<b>Carus, Paul,</b>	271	<b>Gilbert, Geo. H.</b>	606
<b>Christison, J. S.</b>	399	<b>Golther, W.</b>	398

Gomperz, Theo.	393	De Laurence, L. W.	399
Gordy, J. P.	609	Lazarus, M.	397
Gould, Ezra P.	143	Lechartier, G.	269
Granger, Frank,	618	Leclère, Albert,	393
Grasset, J.	612	Lehmann, R.	389
		Lemaitre, Aug.	393
<b>H</b> achet-Souplet, P.	264	Lemme, L.	618
Haeckel, Ernst,	390	Leonardo, B.	394
Halleux, J.	614	Leuba, Jas. H.	620
Hammond, E. P.	620	LIBBY, M. F.	271, 272, 458
Hargitt, C. W.	608	Lichtenberger, Henry	276
Harnack, Adolf,	621	Liechtenhan, R.	621
Hartenberg, Paul,	604	Lincoln, D. F.	399
Hartmann, Franz,	399	Lourie, Walter,	619
Hasse, Erich,	276	Lütgenau, F.	611
Headley, F. W.	390		
Hebbard, S. S.	607	<b>Maeterlinck, M.</b>	607
Heinrich, C. F. G.	621	Maher, Michael,	265
HEMPSTEAD, L.	185	Malapert, P.	270
Henderson, C. R.	271	Manceau, E.	616
Henri, V.	268	Marbe, K.	611
Hilgenfeld, A.	621	Maréchal, Ph.	391
Hirn, Y.	600	MARTIN, LILLIE J.	270
Hofler, —.	140	Mason, R. Osgood,	605
Holden, W. A.	142	Mathew, John,	605
Holl, Karl,	619	Matagrín, A.	398
Holtzmann, D. O.	617	McCLURE, M. F.	178
— H. J.	621	McConnell, S. D.	395
Howell, A. H.	608	McCurdy, J. F.	395
Howison, G. H.	607	McIntosh, Hugh,	617
HUEY, E. B.	292, 604	McKinn, W. D.	275
Hughes, Henry,	398	Meyer, Max,	609
Huit, Ch.	390	Mezes, S. E.	395
Hyde, W. DeWitt,	394	Mickle, W. J.	605
Hylan, John P.	620	Milhaud, Gaston,	142
		Moch, G.	270
<b>I</b> hmels, Ludwig,	621	Moffatt, Jas.	618
		MONROE, WILL S.	602
<b>J</b> akob, Chris.	612	Moore, V. F.	615
Jastrow, Joseph,	272, 399	Morgan, C. Lloyd,	391
Jennings, H. S.	141	Morley, Margt. W.	397
Joly, Henri,	613	Morris, Charles,	279
Jones, J. Sam,	611	Mosso, A.	279, 610
Jordan, Sarah A.	398	Muirhead, J. H.	396
Jüngst, Joh.	621	Müller, Josef,	614
		Münsterberg, Hugo,	273
<b>K</b> ennett, R. H.	389		
Kentsch, Karl,	614	Nash, Henry S.	143
Kipper, Paul,	389	Netschajeff, Alex.	602
King, Henry C.	396		
KINNAMANN, A. J.	240, 398	<b>O</b> chorowicz, J.	269
Kirkpatrick, E. A.	271	OGDEN, R. M.	281
Knight, Wm.	614	Ossip-Lourié,	613
Köberle, Justus,	621	Overton, E.	605, 612
Korn, —.	611		
Kronecker, —.	274	<b>P</b> arodi, D.	270
		Patrick, G. T. W.	400
<b>L</b> ang, Andrew,	616	Paulhan, F.	398
— Ravel B.	391	Peabody, F. G.	617

- Pearl, Raymond, 611  
 Peterson, F. 612  
 Petzoldt, Joseph, 142  
 Pfeiderer, Otto, 143  
 Piat, C. 388  
 Pilcz, Alex. 612  
 Pillon, F. 604  
 PILLSBURY, W. B. 313, 346  
 Poertner, B. 621  
 Prentiss, C. W. 608  
 Proal, Louis, 142  
 Proctor, R. A. 269  
 Pullan, L. 389  
 Putnam, Daniel, 389  
  
 de Raaf, H. 609  
 Ramon y Cajal, S. 611  
 Rand, Benj. 275  
 Rayon, —. 398  
 Reiner, Julius, 615  
 Reinhold, G. 621  
 Renouvier, Chas. 273, 392, 604  
 Reynaud, G. 391  
 Rhys Davids, C. A. F. 143  
 Ribot, Th. 268, 272, 279  
 Richardson, W. M. 274  
 Richmond, Wilfrid, 392  
 Ritschl, A. 394  
 Rivers, W. H. R. 610  
 de Roberty, E. 396  
 Röntgen, Paul, 391  
 Rood, Ogden N. 140  
 Royce, Josiah, 278  
 Rupprecht, Ed. 618  
  
 SANFORD, E. C. 140, 141, 361, 400  
 SAUNDERS, F. H. 274, 400  
 Santayana, George, 277  
 Schade, A. 397  
 Schafer, E. A. 273  
 Schaler, N. S. 278  
 Schauffler, A. F. 621  
 Scheler, Max F. 277  
 Schwarz, H. 614  
 SCOTT, COLIN A. 600  
 Scripture, E. W. 277, 610  
 Seeley, H. G. 608  
 Seligmann, C. G. 610  
 Sergi, G. 610  
 Shaftesbury, Earl of 275  
 Siegmund, Karl, 608  
 SLAUGHTER, J. W. 313  
 SMALL, WILLARD S. 206, 264  
  
 SMITH, MARGT. K. 272, 398, 401  
 Sighele, S. 391  
 Söderblom, N. 619  
 Sollier, Paul, 612  
 Sorel, G. 270  
 Spurrell, H. G. F. 608  
 Stalker, James, 394  
 Steel, Rich. 610  
 Steingiesser, F. 614  
 Stephens, H. M. 616  
 Stern, William, 270  
 Stille, W. A. 620  
 Stimpfl, J. 143  
 Störing, Gustav, 143  
 Stout, G. F. 609  
 Strack, H. L. 143  
 von Straszewski, M. 607  
 Strümpell, A. 611  
 Sturgis, F. R. 392  
  
 Tanon, L. 269  
 Tarde, G. 605  
 TAYLOR, R. W. 335  
 Thomson, J. A. 389  
 Thorndike, Edw. 392  
 TITCHENER, E. B. 265, 388, 400, 402, 595, 596  
 Trettien, Aug. W. I  
 TRIPLETT, NORMAN, 144, 271, 354, 361, 402  
  
 Villa, Guido, 272  
 Vogel, Th. 395  
  
 Wagner, R. 608  
 Wallace, A. R. 390  
 Walther, D. W. 618  
 Weincl, H. 606  
 Weiss, Johannes, 619  
 Wernle, Paul, 606, 616  
 WHIPPLE, GUY M. 409  
 Wilcox, D. F. 614  
 Windelband, W. 399, 614  
 Wundt, W. 604  
 Wissler, Clark, 274  
 Witasek, —. 140  
 Wobbermin, Georg, 619, 621  
 Wood, H. 399  
 — S. T. 615  
  
 Zeitler, Julius, 278  
 Ziehen, Th. 269  
 Zola, Emile, 276